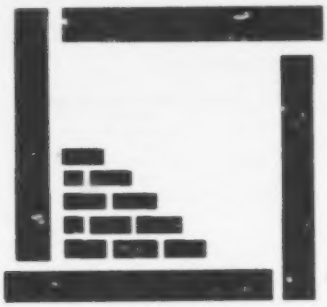
CC 87-I-4



PRELIMINARY REPORTS
INDUSTRY SERIES

1987 Census of Construction Industries

CC87-I-4(P)
Issued June 1989

GENERAL CONTRACTORS—INDUSTRIAL BUILDINGS AND WAREHOUSES

(Industry 1541)

During 1987, the establishments with paid employees classified in this industry accounted for $22.7 billion in total dollar value of business. Of this amount, $21.8 billion were for the value of construction work. These establishments paid out $5.0 billion for materials, components, supplies, and fuels and $10.6 billion for construction work subcontracted to others. Total employment for this industry averaged 144,290 for the year with a total payroll of $3.6 billion. Value added for 1987 was $7.0 billion.

Establishments classified in this industry are primarily engaged in the construction of industrial buildings such as aluminum plants, automobile assembly plants, pharmaceutical manufacturing plants, and commercial warehouses (including new work, additions, alterations, remodeling, and repair). For additional examples, refer to the 1987 Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget, Executive Office of the President.

A "construction establishment" is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sampled establishment covering domestic operations.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have excluded the value of work in progress during the calendar year. Receipts may have also excluded work done by builders engaged in construction for sale on their own account or for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

The data in this report are estimated from a sample survey and are subject to sampling variability as well as errors of response and nonreporting. The relative standard error shown in the tables is a measure of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are available upon request and will be included in the final report.

U.S. Department of Commerce
BUREAU OF THE CENSUS

For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

C 3.245/6:

READEX FICHE best copy available

Table 1. Detailed Statistics for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 3]

Item	1987	1982	Relative standard error of estimate (percent) 1987	1982
Number of establishments in business during year	7 112	7 435	2	1
Proprietors and working partners	954	1 359	8	5
All employees**	144 290	153 821	1	1
Construction workers:				
March	105 279	117 040	1	1
May	109 941	124 264	1	1
August	118 308	126 577	1	1
November	114 146	115 135	1	1
Average	111 921	121 517	1	1
Other employees:				
March	31 846	32 238	1	1
May	32 102	(NA)	1	(NA)
August	32 769	(NA)	1	(NA)
November	32 769	(NA)	1	(NA)
Average	32 369	(NA)	1	(NA)
Construction worker hours (thousands):				
January to March	45 697	52 797	1	1
April to June	48 999	57 128	1	1
July to September	52 596	58 127	1	1
October to December	50 966	51 426	1	1
Total hours worked	198 259	219 480	1	(W)
Payroll, all employees	3 649 485	3 231 000	1	(W)
Payroll, construction workers	2 523 535	2 344 085	1	(W)
Payroll, other employees	1 125 950	886 914	1	1
First quarter payroll, all employees	842 678	770 770	1	(W)
Employer costs for fringe benefits, all employees	884 739	581 050	1	(W)
Legally required expenditures	564 145	432 397	1	(W)
Voluntary expenditures	320 594	148 652	1	1
Dollar value of business done	22 676 038	18 107 888	(W)	(W)
Value of construction work[1]	21 823 297	17 834 735	(W)	(W)
Value of construction work subcontracted in from others	1 214 571	835 351	3	2
Land receipts[2]	(NA)	(NA)	(NA)	(NA)
Other business receipts	852 741	273 153	1	1
Net value of construction work†	11 266 238	9 293 778	1	(W)
Value added††	6 996 119	5 755 674	1	(W)
Selected costs	15 680 028	12 352 213	1	(W)
Materials, components, and supplies	4 959 425	3 680 814	1	1
Construction work subcontracted to others	10 557 110	8 540 956	1	(W)
Selected power, fuels, and lubricants	163 492	130 442	2	1
Electricity	29 021	23 988	1	1
Natural gas	8 879	7 158	1	1
Gasoline and diesel fuel	114 115	90 585	3	1
On highway use	91 764	(NA)	1	(NA)
Off highway use	22 351	(NA)	10	(NA)
Other, including lubricating oils and greases	11 485	8 710	1	2
Rental costs for machinery, equipment, and buildings	247 446	163 301	1	1
For machinery and equipment	177 149	129 922	1	1
For buildings	71 339	33 379	2	2
Selected purchased services	168 525	127 122	1	1
Communication services	59 232	43 916	1	1
Repairs to buildings and other structures	13 317	8 500	3	2
Repairs to machinery and equipment	96 989	74 705	1	1
Ownership of construction projects:				
Value of construction work	21 823 297	17 834 735	(W)	(W)
Government owned	3 676 648	2 204 610	1	2
Federal	1 633 206	(NA)	2	(NA)
State and local	2 043 441	(NA)	2	(NA)
Privately owned	18 146 648	15 630 124	1	(W)

[1]In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.
[2]Data were collected separately for establishments classified in SIC 1531, Operative Builders, and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

Table 2. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see below.]

Item	1987	1982	Relative standard error of estimate (percent) 1987	1982
Value of construction work[1]	**21 823 297**	**17 834 735**	**(W)**	**(W)**
Building construction	20 461 849	17 348 328	(W)	(W)
Single-family houses	242 038	168 365	4	3
Single-family houses, detached	197 095	105 870	5	4
Single-family houses, attached	44 942	62 494	4	4
Apartment buildings with two or more apartments	140 722	154 967	2	2
Other residential buildings, including hotels and motels	271 506	113 073	2	2
Hotels and motels	154 135	(NA)	2	(NA)
Other residential buildings, excluding hotels and motels	107 371	(NA)	3	(NA)
Office buildings	1 701 843	1 431 186	1	1
Other commercial buildings such as stores, restaurants, and automobile service stations	1 071 618	463 703	1	1
Industrial buildings and warehouses	15 801 166	13 997 926	1	(W)
Industrial buildings	12 320 401	11 803 981	1	(W)
Warehouses	3 510 765	2 193 945	1	1
Religious buildings	157 040	105 746	3	2
Educational buildings	385 541	267 626	1	2
Hospitals and institutional buildings	431 663	480 445	1	(W)
Farm buildings	41 084	(NA)	11	(NA)
Amusement, social, and recreational buildings	63 122	(NA)	4	(NA)
Other nonresidential buildings	124 506	155 291	1	9
Nonbuilding construction	864 105	480 050	1	1
Highways, streets, and related facilities	53 864	(NA)	3	(NA)
Parking areas including private driveways	3 657	(NA)	(W)	(NA)
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	3 364	(NA)	23	(NA)
Bridges and elevated highways	48 711	(NA)	1	(NA)
Sewers, water mains, and related facilities	99 195	(NA)	(W)	(NA)
Sewers, sewer lines, and related facilities	52 576	(NA)	(W)	(NA)
Water mains and related facilities	46 619	(NA)	(W)	(NA)
Mass transit construction	44 683	(NA)	3	(NA)
Heavy industrial facilities	142 001	(NA)	(W)	(NA)
Blast furnaces; petroleum refineries, and chemical complexes	124 122	(NA)	(W)	(NA)
Power plants	17 878	6 315	(W)	(W)
Sewage treatment and water treatment plants	143 079	116 707	2	(W)
Sewage treatment plants	93 089	(NA)	3	(NA)
Water treatment plants	49 990	(NA)	3	(NA)
Other nonbuilding construction	325 551	357 026	3	1
Construction work, n.s.k.	497 342	6 356	1	16

[1] In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

The following abbreviations and symbols are used in the tables in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees is the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- \- Represents zero.
- † Represents value of construction work less payments for construction work subcontracted to others.
- †† Represents dollar value of business done less payments for construction work subcontracted to others, and payments for materials , components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "dollar value of business done".
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS